



## CONTENTS OF VOLUME 19

### Number 1, September 1990

Publisher's Announcement	v
Changing of the Guard <i>E. van der Schueren</i>	vii
Inaugural Editorial <i>H. Bartelink and J. Overgaard</i>	ix
Radiobiological aspects of continuous low dose-rate irradiation and fractionated high dose-rate irradiation <i>I. Turesson (Sweden)</i>	1
Controversies in the management of non-small cell lung cancer: the results of an expert surrogate study <i>M. J. Palmer, B. O'Sullivan, R. Steele and W. J. Mackillop (Canada, U.K.)</i>	17
Early breast cancer: predictors of breast recurrence for patients treated with conservative surgery and radiation therapy <i>J. Boyages, A. Recht, J. L. Connolly, S. J. Schnitt, R. Gelman, H. Kooy, S. Love, R. T. Osteen, B. Cady, B. Silver and J. R. Harris (U.S.A.)</i>	29
Stage II carcinoma of the cervix: analysis of the value of pretreatment extraperitoneal lymph node sampling and adjunctive surgery following irradiation <i>O. Abayomi, M. Chun and H. Ball (U.S.A.)</i>	43
Radiosensitivity, recovery and dose-rate effect in three human glioma cell lines <i>X. Yang, J. L. Darling, T. J. McMillan, J. H. Peacock and G. G. Steel (U.K.)</i>	49
The RBE of euoxic and hypoxic Ehrlich ascites tumour cells irradiated with negative pions in vitro and in vivo <i>L. Jüling-Pohlitz, D. Latz, W. Pohlitz and A. Thonke (F.R.G.)</i>	57
Quality assurance in radiotherapy by in vivo dosimetry. 2. Determination of the target absorbed dose <i>G. Leunens, J. Van Dam, A. Dutreix and E. van der Schueren (Belgium)</i>	73
Treatment dilemmas in "non-small cell" lung cancer (Editorial Comment) <i>J. B. Sørensen and H. H. Hansen</i>	89
Comments on Dosimetric consideration on multiple arc stereotaxic radiotherapy (Letter to the Editor) <i>G. Jozsef and G. Luxton (U.S.A.)</i>	90
Reply to Letter by Gabor Jozsef and Gary Luxton <i>C. Chierego and C. Marchetti (Italy)</i>	91

ESTRO Teaching Courses 1990	93
<i>Number 2, October 1990</i>	
Publisher's Announcement	iii
DNA damage and repair following treatment with ionizing radiation (Review) <i>S. Powell and T. J. McMillan (U.K.)</i>	95
Ethmoid and upper nasal cavity carcinoma: treatment, results and complications <i>A. B. M. F. Karim, J. H. Kralendijk, K. H. Njo, J. M. Tabak, W. H. Elsenaar and A. Th. M. van Balen (The Netherlands)</i>	109
Non-cancerous ulcer in the esophagus after radiotherapy for esophageal carcinoma – a report of 27 patients <i>Z. Yang, Y. Hu and X. Gu (China)</i>	121
Palliative radiation therapy for AIDS-associated Kaposi's sarcoma by using a single fraction of 800 cGy <i>R. de Wit, W. G. J. M. Smit, K. H. N. Veenhof, P. J. M. Bakker, F. Oldenburger and D. González (The Netherlands)</i>	131
Intraoperative plus external beam irradiation in nonresectable lung cancer: assessment of local response and therapy-related side effects <i>K. S. Arian-Schad, F. M. Juettner, B. Ratzenhofer, H. Leitner, G. Porsch, H. Pinter, F. Ebner, A. G. Hackl and G. B. Friehs (Austria)</i>	137
The measurement of the regression of carcinoma of the bladder using ultrasonography and CT scanning during and after radical radiotherapy <i>E. M. Bessell, H. M. Price and P. J. McMillan (U.K.)</i>	145
Different imaging methods in the assessment of radiation-induced lung injury following hemithorax irradiation for pleural mesothelioma <i>P. Maasilita, L. Kivisaari and K. Mattson (Finland)</i>	159
Analysis of 5-iodo-2'-deoxyuridine incorporation in murine melanoma for photon activation therapy <i>B. H. Lester, E. A. Popenoe, L. Wielopolski, S. L. Commerford, R. Gahbauer, J. Goodman, A. Meek and R. G. Fairchild (U.S.A.)</i>	169
Treatment planning for neutron therapy of high-grade astrocytomas and pencil gliomas <i>J. Rassow, W. Baumhoer, K. Olthoff and M. Bamberg (F.R.G.)</i>	179
Inhaled thiol and phosphorothiol radioprotectors fail to protect the mouse lung (Short Communication) <i>S. P. Lockhart (U.K.)</i>	187
Meeting Agenda	192
Courses	194
<i>Number 3, November 1990</i>	
Publisher's Announcement	iii

Cancer genes: current status, future prospects, and applications in radiotherapy/oncology <i>M. J. Renan (South Africa)</i>	197
Time-dose factors in radiotherapy: a review of the human data <i>H. D. Thames, S. M. Bentzen, I. Turesson, M. Overgaard and W. Van den Bogaert (U.S.A., Denmark, Belgium)</i>	219
Further analysis of the time factor in squamous cell carcinoma of the tonsillar region (Short Communication) <i>J. F. Fowler, M. A. Tanner, J. P. Bataini, B. Asselain, J. Bernier and C. Lave (U.S.A., France, Switzerland)</i>	237
The potential for radiobiological modelling in radiotherapy treatment design (The 1989 James Kirk Memorial Lecture) <i>R. G. Dale (U.K.)</i>	245
Isoeffect relationships for fractionated biologically targeted radiotherapy <i>J. A. O'Donoghue (U.K.)</i>	257
Single-dose electron beam irradiation in treatment and prevention of keloids and hypertrophic scars <i>T. C. M. Lo, B. R. Seckel, F. A. Salzman and K. A. Wright (U.S.A.)</i>	267
Role of radiation therapy in locally advanced thymoma <i>A. Urgesi, U. Monetti, G. Rossi, U. Ricardi and C. Casadio (Italy)</i>	273
The energy metabolism of RIF-1 tumours following hydralazine <i>Z. M. Bhujwalla, G. M. Tozer, S. B. Field, R. J. Maxwell and J. R. Griffiths (U.K.)</i>	281
Meeting Agenda/Courses	292
<i>Number 4, December 1990</i>	
Publisher's Announcement	iii
Biochemical basis of resistance to chemotherapy <i>J. R. W. Masters (U.K.)</i>	297
High energy (42–66 MeV reactions) fast neutron dose optimization studies in the head and neck, thorax, upper abdomen, pelvis and extremities <i>T. W. Griffin, K. L. Martz, G. E. Laramore, F. J. Thomas, M. H. Maor, F. R. Hendrickson, R. G. Parker, M. P. Richter and L. W. Davis (U.S.A.)</i>	307
Lung cancer in patients with borderline lung functions – zonal lung perfusion scans at presentation and lung function after high dose irradiation <i>R. P. Abratt, P. A. Willcox and J. A. Smith (South Africa)</i>	317
Ovarian cancer: radiation sensitivity in vitro <i>B. J. Slotman, A. B. M. F. Karim and B. R. Rao (The Netherlands)</i>	323
In vitro capacity of various cyclooxygenase inhibitors to revert immune suppression caused by radiation therapy for breast cancer <i>H. Blomgren, S. Rotstein, J. Wasserman, B. Petrini and S. Hammarström (Sweden)</i>	329
The CT scanner as a therapy machine <i>K. S. Iwamoto, A. Norman, A. R. Kagan, M. Wollin, A. Olch, J. Bellotti, M. Ingram and R. G. Skillen (U.S.A.)</i>	337

Correlation between temperature and dose rate dependence of semiconductor response; influence of accumulated dose (Technical Note) <i>J. Van Dam, G. Leunens and A. Dutreix (Belgium)</i>	345
The future of radiotherapy (Editorial) <i>A. Horwich (U.K.)</i>	353
Contents of Volume 19	357
Author Index	361
Subject Index	364